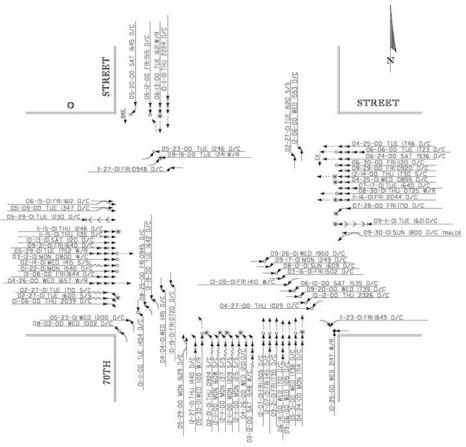
5.6 70th Street and O Street

BEFORE

ADT: 52,625 veh/day (2000) **Time Period:** 2000-01

Traffic Control: Actuated Coordinated Signal **Crash Pattern:** All Rear Ends NB & WB Left Turns



Total Crashes in Before Period: 73



70th Street and O Street - Eastbound Approach (Before)



5.6 70th Street and O Street

AFTER

2004-05

Countermeasures: Constructed EB & WB Thru and Time Period:

NB, SB, EB, & WB Dual Left Turn

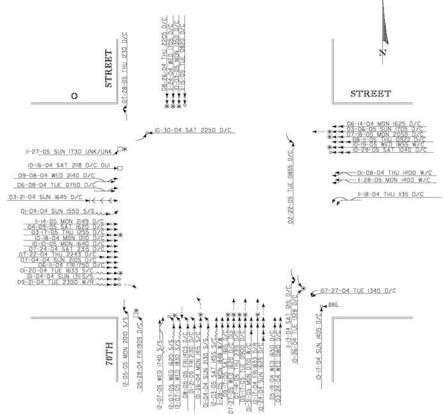
Lanes, Rebuilt Traffic Signal

Improvement Completion Date:

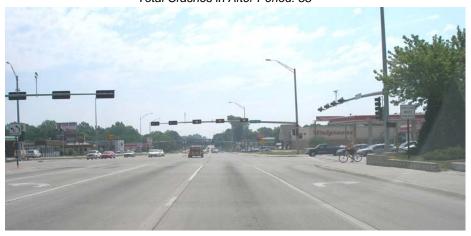
October 24, 2003

Speed Limits:

NS Arterial- 35 mph EW Arterial- 40 mph EB/ 45 mph WB



Total Crashes in After Period: 58



70th Street and O Street - Eastbound Approach (After)



5.6 70th Street and O Street

COMPARISON

Countermeasures: Constructed EB & WB Thru and NB, SB, EB, & WB Dual Left

Turn Lanes, Rebuilt Traffic Signal

Improvement Completion Date: October 24, 2003

	Before	After	Change
	2000-01	2004-05	-
Analysis Period			
Primary Crash Benefit			
Total Number of Correctable Crashes	45	24	-47%
All Other Intersection Crashes	28	34	21%
Intersection Crash Experience			
Injury + Fatal Crashes	24	7	-71%
Property Damage-Only Crashes	35	33	-6%
Non-Reportable Crashes	14	18	29%
Total Number of Intersection Crashes	73	58	-21%
Total Intersection Benefit			
Crash Rate	1.83	1.4	-23%
EPDO Rate	6.48	2.57	-60%
EPDO Number*	259.18	106.81	-152.37

Cost of Property Damage Crash: \$ 6,500
Total Benefit (12 months): \$ 990,405
Equivalent Uniform Annual Benefit \$ 1,271,340
(EUAB):

Total Cost of Improvements:

Equivalent Uniform Annual Cost (EUAC): \$ 65,390

Initial Cost: \$ 750,000 (Estimated)

Benefit-Cost Ratio: $\frac{\$ 1,271,340}{\$ 65,390} = 19.4$

Net Benefit (Present Worth): \$ 1,271,340 - \$65,390 = \$1,205,950

*Change Statistically Significant at 95% Confidence Interval



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